CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001-2015 Certified Company
NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

Job No.: CACE/BBMP/NVR/W.No.14/2021-22

Date: 06.01.2022

TEST REPORT

CLIENT	:	**Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
AGENCY	:	**Sri. Narayanappa Venkata Reddy,** Contractor, Bangalore.
NAME OF THE WORK	:	Improvements to Roads Drains and other Maintenance in Manjunath Nagara and Surrounding area in ward No.14 Bagalagunte, BBMP, Bangalore.
SAMPLE ID	:	Cement (Zuari OPC 53 Grade)
DATE OF MANUFACTURE		December - 2021
DATE OF TESTING		04.01.2022 to 06.01.2022
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269-2015
1	a) Initial Setting Time	IS-4031 (Part -5)	130 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	320 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	29.00 %	-

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For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
Ramaiah Layout, Nagasandra, Bangalore - 560 073.
Ph: 9591618639, GSTIN: 29CNWPD9510K1ZB, Email: civilaimconsultants@gmail.com

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Job No.: CACE/BBMP/NVR/W.No.14/2021-22 Date : 06.01.2022

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Narayanappa Venkata Reddy,** Contractor, Bangalore.

Name of Work : Improvements to Roads Drains and other Maintenance in Manjunath Nagara and Surrounding area in ward No.14 Bagalagunte, BBMP, Bangalore.

Date of Testing : 06.01.2022

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : Sand Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	89	8.90	8.90	91.1	90-100
2.36	124	12.40	21.30	78.7	75-100
1.18	182	18.20	39.50	60.5	55-90
600 Micron	165	16.50	56.00	44.0	35-59
300 Micron	220	22.00	78.00	22.0	8-30
150 Micron	132	13.20	91.20	8.8	0-10

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For CIVIL AIM CONSULTANTS & ENGINEERS

Srikanth
Authorised Signatory

No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
Ramaiah Layout, Nagasandra, Bangalore - 560 073.
Ph: 9591618639, GSTIN: 29CNWPD9510K1ZB, Email: civilaimconsultants@gmail.com

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Job No.: CACE/BBMP/NVR/W.No.14/2021-22 Date : 06.01.2022

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client : **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Narayanappa Venkata Reddy,** Contractor, Bangalore.

Name of Work : Improvements to Roads Drains and other Maintenance in Manjunath Nagara and Surrounding area in ward No.14 Bagalagunte, BBMP, Bangalore.

Date of Testing : 06.01.2022

Material : Sand - Masonry Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	14	1.40	1.40	98.6	90-100
1.18	35	3.50	4.90	95.1	70-100
600 Micron	86	8.60	13.50	86.5	40-100
300 Micron	244	24.40	37.90	62.1	5-70
150 Micron	485	48.50	86.40	13.6	0-15

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Job No.: CACE/BBMP/NVR/W.No.14/2021-22

Date : 06.01.2022

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Narayanappa Venkata Reddy,** Contractor, Bangalore.

Name of Work : Improvements to Roads Drains and other Maintenance in Manjunath Nagara and Surrounding area in ward No.14 Bagalagunte, BBMP, Bangalore.

Date of Testing : 06.01.2022

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	184	3.7	3.7	96.3	95-100
10	2430	48.6	52.3	47.7	25-55
4.75	1965	39.3	91.6	8.4	0-10

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Date : 06.01.2022

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Narayanappa Venkata Reddy,** Contractor, Bangalore.

Name of Work : Improvements to Roads Drains and other Maintenance in Manjunath Nagara and Surrounding area in ward No.14 Bagalagunte, BBMP, Bangalore.

Date of Testing : 06.01.2022

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	189	1.26	1.26	98.74	95-100
20	8230	54.87	56.13	43.87	30-70
10	3256	21.71	77.83	22.17	10-35
4.75	2816	18.77	96.61	3.39	0-5

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Job No.: CACE/BBMP/NVR/W.No.14/2021-22

Date : 10.01.2022

TEST REPORT OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Narayanappa Venkata Reddy,** Contractor, Bangalore.

Name of Work : Improvements to Roads Drains and other Maintenance in Manjunath Nagara and Surrounding area in ward No.14 Bagalagunte, BBMP, Bangalore.

Steel Dia/Length : 8mm,10mm,12mm " Fe500 TMT Bars"

Reference to BIS codes : IS 1786:2008(RA 2013) High Strength Deformed Steel Bars and Wires for Concrete Reinforcement-Specification

: IS 1608:2005 Metallic Materials- Tensile Testing at Ambient Temperature

Date of test : 10.01.2022

S.No	Brand	Nominal size (dia in mm)	Mass per meter (kg/meter)	TENSILE STRENGTH			
				0.20 % proof stress/ yield stress (N/mm^2)	Tensile strength (N/mm^2)	TS/YS ratio	Elongation, percent on gauge length
1	TMT	8	0.396	552	635	1.15	14
2	TMT	10	0.618	564	656	1.16	15.5
3	TMT	12	0.888	573	668	1.17	16

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Ramaiah Layout, Nagasandra, Bangalore - 560 073.
Ph: 9591618639, GSTIN: 29CNWPD9510K1ZB, Email: civilaimconsultants@gmail.com

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Job No.: CACE/BBMP/NVR/W.No.14/2021-22

Date: 20.01.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Narayanappa Venkata Reddy,** Contractor, Bangalore.

Name of the work : Improvements to Roads Drains and other Maintenance in Manjunath Nagara and Surrounding area in ward No.14 Bagalagunte, BBMP, Bangalore.

Sample ID : Cement Concrete for Raft

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	13.01.2022	20.01.2022	8.132	332.3	14.77
2	13.01.2022	20.01.2022	8.154	345.2	15.34
3	13.01.2022	20.01.2022	8.126	356.8	15.86

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maiah Layout, Nagasandra, Bangalore - 560 073.
: 9591618639, GSTIN: 29CNWPD9510K1ZB, Email: civilaimconsult

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Job No.: CACE/BBMP/NVR/W.No.14/2021-22

Date: 24.01.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Narayanappa Venkata Reddy,** Contractor, Bangalore.

Name of the work : Improvements to Roads Drains and other Maintenance in Manjunath Nagara and Surrounding area in ward No.14 Bagalagunte, BBMP, Bangalore.

Sample ID : Cement Concrete for Wall

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.01.2022	24.01.2022	8.189	356.3	15.84
2	17.01.2022	24.01.2022	8.168	336.2	14.94
3	17.01.2022	24.01.2022	8.145	345.2	15.34

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Job No.: CACE/BBMP/NVR/W.No.14/2021-22

Date: 14.02.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Agency : Sri. Narayanappa Venkata Reddy, Contractor, Bangalore.

Name of the work : Improvements to Roads Drains and other Maintenance in Manjunath Nagara and Surrounding area in ward No.14 Bagalagunte, BBMP, Bangalore.

Sample ID : Cement Concrete for Wall

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.01.2022	14.02.2022	8.189	505.2	22.45
2	17.01.2022	14.02.2022	8.168	516.2	22.94
3	17.01.2022	14.02.2022	8.170	484.6	21.54

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Job No.: CACE/BBMP/NVR/W.No.14/2021-22

Date: 24.01.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Narayanappa Venkata Reddy,** Contractor, Bangalore.

Name of the work : Improvements to Roads Drains and other Maintenance in Manjunath Nagara and Surrounding area in ward No.14 Bagalagunte, BBMP, Bangalore.

Sample ID : Cement Concrete for Wall

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.01.2022	24.01.2022	8.184	332.3	14.77
2	17.01.2022	24.01.2022	8.169	324.6	14.43
3	17.01.2022	24.01.2022	8.152	356.2	15.83

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Date: 14.02.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Narayanappa Venkata Reddy,** Contractor, Bangalore.

Name of the work : Improvements to Roads Drains and other Maintenance in Manjunath Nagara and Surrounding area in ward No.14 Bagalagunte, BBMP, Bangalore.

Sample ID : Cement Concrete for Wall

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.01.2022	14.02.2022	8.169	520.9	23.15
2	17.01.2022	14.02.2022	8.152	505.2	22.45
3	17.01.2022	14.02.2022	8.146	516.4	22.95

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Job No.: CACE/BBMP/NVR/W.No.14/2021-22 Date: 25.01.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Sri, Narayanappa Venkata Reddy,** Contractor, Bangalore.

Name of the work : Improvements to Roads Drains and other Maintenance in Manjunath Nagara and Surrounding area in ward No.14 Bagalagunte, BBMP, Bangalore.

Sample ID : Cement Concrete for Raft

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.01.2022	25.01.2022	8.190	349.6	15.54
2	18.01.2022	25.01.2022	8.184	336.3	14.95
3	18.01.2022	25.01.2022	8.152	322.5	14.33

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Job No.: CACE/BBMP/NVR/W.No.14/2021-22

Date: 15.02.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Narayanappa Venkata Reddy,** Contractor, Bangalore.

Name of the work : Improvements to Roads Drains and other Maintenance in Manjunath Nagara and Surrounding area in ward No.14 Bagalagunte, BBMP, Bangalore.

Sample ID : Cement Concrete for Raft

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.01.2022	15.02.2022	8.169	505.2	22.45
2	18.01.2022	15.02.2022	8.184	516.3	22.95
3	18.01.2022	15.02.2022	8.152	484.5	21.53

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Job No.: CACE/BBMP/NVR/W.No.14/2021-22

Date: 25.01.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Narayanappa Venkata Reddy,** Contractor, Bangalore.

Name of the work : Improvements to Roads Drains and other Maintenance in Manjunath Nagara and Surrounding area in ward No.14 Bagalagunte, BBMP, Bangalore.

Sample ID : Cement Concrete for Raft

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.01.2022	25.01.2022	8.166	328.3	14.59
2	18.01.2022	25.01.2022	8.155	336.5	14.96
3	18.01.2022	25.01.2022	8.149	345.5	15.36

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Authorised Signatory

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Ramaiah Layout, Nagasandra, Bangalore - 560 073.
Ph: 9591618639, GSTIN: 29CNWPD9510K1ZB, Email: civilaimconsultants@gmail.com

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Job No.: CACE/BBMP/NVR/W.No.14/2021-22

Date: 15.02.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Narayanappa Venkata Reddy,** Contractor, Bangalore.

Name of the work : Improvements to Roads Drains and other Maintenance in Manjunath Nagara and Surrounding area in ward No.14 Bagalagunte, BBMP, Bangalore.

Sample ID : Cement Concrete for Raft

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.01.2022	15.02.2022	8.189	505.2	22.45
2	18.01.2022	15.02.2022	8.168	513.3	22.81
3	18.01.2022	15.02.2022	8.154	492.6	21.89

Note:

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Job No.: CACE/BBMP/NVR/W.No.14/2021-22 Date: 28.01.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Narayanappa Venkata Reddy,** Contractor, Bangalore.

Name of the work : Improvements to Roads Drains and other Maintenance in Manjunath Nagara and Surrounding area in ward No.14 Bagalagunte, BBMP, Bangalore.

Sample ID : Cement Concrete for Wall

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	21.01.2022	28.01.2022	8.169	356.3	15.84
2	21.01.2022	28.01.2022	8.188	338.5	15.04
3	21.01.2022	28.01.2022	8.154	342.6	15.23

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Job No.: CACE/BBMP/NVR/W.No.14/2021-22

Date: 18.02.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Narayanappa Venkata Reddy,** Contractor, Bangalore.

Name of the work : Improvements to Roads Drains and other Maintenance in Manjunath Nagara and Surrounding area in ward No.14 Bagalagunte, BBMP, Bangalore.

Sample ID : Cement Concrete for Wall

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	21.01.2022	18.02.2022	8.189	505.2	22.45
2	21.01.2022	18.02.2022	8.165	513.2	22.81
3	21.01.2022	18.02.2022	8.149	484.6	21.54

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Job No.: CACE/BBMP/NVR/W.No.14/2021-22

Date: 28.01.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Narayanappa Venkata Reddy,** Contractor, Bangalore.

Name of the work : Improvements to Roads Drains and other Maintenance in Manjunath Nagara and Surrounding area in ward No.14 Bagalagunte, BBMP, Bangalore.

Sample ID : Cement Concrete for Wall

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	21.01.2022	28.01.2022	8.169	336.3	14.95
2	21.01.2022	28.01.2022	8.188	354.2	15.74
3	21.01.2022	28.01.2022	8.172	346.8	15.41

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Job No.: CACE/BBMP/NVR/W.No.14/2021-22 Date: 18.02.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Narayanappa Venkata Reddy,** Contractor, Bangalore.

Name of the work : Improvements to Roads Drains and other Maintenance in Manjunath Nagara and Surrounding area in ward No.14 Bagalagunte, BBMP, Bangalore.

Sample ID : Cement Concrete for Wall

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	21.01.2022	18.02.2022	8.178	512.2	22.76
2	21.01.2022	18.02.2022	8.165	500.9	22.26
3	21.01.2022	18.02.2022	8.149	488.6	21.72

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Job No.: CACE/BBMP/NVR/W.No.14/2021-22

Date: 02.02.2022

PRECAST SLAB 100mm Thick(CORE) TEST REPORT

Client	:	**Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
Contractor	:	**Sri. Narayanappa Venkata Reddy,** Contractor, Bangalore.
Name of Work	:	Improvements to Roads Drains and other Maintenance in Manjunath Nagara and Surrounding area in ward No.14 Bagalagunte, BBMP, Bangalore.
No.of Sample Tested	:	03
Date of Testing	:	02.02.2022
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{20}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	82.00	0.374	2322.89	1.64	0.961	32.90	16.76	18.10	17.39	21.74
2	50.00	84.00	0.389	2358.52	1.68	0.965	33.60	17.11	18.48	17.84	22.30
3	50.00	86.00	0.405	2398.43	1.72	0.970	34.30	17.47	18.87	18.30	22.87

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Date : 14.02.2022

Job No.: CACE/BBMP/NVR/W.No.14/2021-22

GRADATION FOR DRY LEAN CONCRETE
MORTH TABLE-600-1

Client : **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Narayanappa Venkata Reddy,** Contractor, Bangalore.

Name of Work : Improvements to Roads Drains and other Maintenance in Manjunath Nagara and Surrounding area in ward No.14 Bagalagunte, BBMP, Bangalore.

Date of Testing : 14.02.2022

Material : Dry Lean Concrete

Oven Dry Wt (gm): **10000**

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
26.5	0	0	0	100	100
19	1050	1050	10.5	89.5	80-100
9.5	2439	3489	34.9	65.1	55-75
4.75	1536	5025	50.3	49.8	35-60
0.600	3325	8350	83.5	16.5	10-35
0.075	958	9308	93.1	6.9	0-8

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Job No.: CACE/BBMP/NVR/W.No.14/2021-22 Date: 24.02.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Narayanappa Venkata Reddy,** Contractor, Bangalore.

Name of the work : Improvements to Roads Drains and other Maintenance in Manjunath Nagara and Surrounding area in ward No.14 Bagalagunte, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.02.2022	24.02.2022	8.165	489.6	21.76
2	17.02.2022	24.02.2022	8.146	472.5	21.00
3	17.02.2022	24.02.2022	8.146	505.2	22.45

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Job No.: CACE/BBMP/NVR/W.No.14/2021-22 Date: 17.03.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Narayanappa Venkata Reddy,** Contractor, Bangalore.

Name of the work : Improvements to Roads Drains and other Maintenance in Manjunath Nagara and Surrounding area in ward No.14 Bagalagunte, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.02.2022	17.03.2022	8.168	715.2	31.79
2	17.02.2022	17.03.2022	8.175	724.9	32.22
3	17.02.2022	17.03.2022	8.182	709.3	31.52

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Job No.: CACE/BBMP/NVR/W.No.14/2021-22 Date: 24.02.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Narayanappa Venkata Reddy,** Contractor, Bangalore.

Name of the work : Improvements to Roads Drains and other Maintenance in Manjunath Nagara and Surrounding area in ward No.14 Bagalagunte, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.02.2022	24.02.2022	8.162	500.2	22.23
2	17.02.2022	24.02.2022	8.140	478.5	21.27
3	17.02.2022	24.02.2022	8.149	489.6	21.76

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Date: 17.03.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Narayanappa Venkata Reddy,** Contractor, Bangalore.

Name of the work : Improvements to Roads Drains and other Maintenance in Manjunath Nagara and Surrounding area in ward No.14 Bagalagunte, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.02.2022	17.03.2022	8.165	712.2	31.65
2	17.02.2022	17.03.2022	8.146	728.9	32.40
3	17.02.2022	17.03.2022	8.128	706.3	31.39

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Date: 24.02.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Narayanappa Venkata Reddy,** Contractor, Bangalore.

Name of the work : Improvements to Roads Drains and other Maintenance in Manjunath Nagara and Surrounding area in ward No.14 Bagalagunte, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.02.2022	24.02.2022	8.165	489.6	21.76
2	17.02.2022	24.02.2022	8.152	501.2	22.28
3	17.02.2022	24.02.2022	8.138	516.3	22.95

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Date: 17.03.2022

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Client : **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Narayanappa Venkata Reddy,** Contractor, Bangalore.

Name of the work : Improvements to Roads Drains and other Maintenance in Manjunath Nagara and Surrounding area in ward No.14 Bagalagunte, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.02.2022	17.03.2022	8.168	715.2	31.79
2	17.02.2022	17.03.2022	8.140	729.6	32.43
3	17.02.2022	17.03.2022	8.152	705.3	31.35

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Job No.: CACE/BBMP/NVR/W.No.14/2021-22

Date: 24.02.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Narayanappa Venkata Reddy,** Contractor, Bangalore.

Name of the work : Improvements to Roads Drains and other Maintenance in Manjunath Nagara and Surrounding area in ward No.14 Bagalagunte, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.02.2022	24.02.2022	8.169	500.2	22.23
2	17.02.2022	24.02.2022	8.152	513.2	22.81
3	17.02.2022	24.02.2022	8.184	484.9	21.55

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples collected at the site.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
Ramaiah Layout, Nagasandra, Bangalore - 560 073.
Ph: 9591618639, GSTIN: 29CNWPD9510K1ZB, Email: civilaimconsultants@gmail.com

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CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001-2015 Certified Company

NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

Job No.: CACE/BBMP/NVR/W.No.14/2021-22

Date: 17.03.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Narayanappa Venkata Reddy,** Contractor, Bangalore.

Name of the work : Improvements to Roads Drains and other Maintenance in Manjunath Nagara and Surrounding area in ward No.14 Bagalagunte, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.02.2022	17.03.2022	8.184	714.6	31.76
2	17.02.2022	17.03.2022	8.156	708.2	31.48
3	17.02.2022	17.03.2022	8.138	700.9	31.15

Note:

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